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APPROVAL PAGE

SPACE TRANSPORTATION SYSTEM
OPERATION AND MAINTENANCE DOCUMENT

NONCONFORMANCE/PROBLEM
REPORTING AND CORRECTIVE
ACTION DATA CODE

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LIST OF EFFECTIVE PAGES

This is a complete revision replacing revision A, dated November 20, 1981. A further list of effective pages will be published as future change packages are issued.

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SECTION I

UTILIZATION OF DATA CODE

1.1 GENERAL

DURING STS GROUND OPERATIONS, EACH OPERATION OR MAINTENANCE ACTION PERFORMED ON FLIGHT OR GROUND EQUIPMENT MUST BE FULLY AND ACCURATELY DOCUMENTED. THE VOLUME OF DATA THAT MUST BE COLLECTED, STORED, AND DISSEMINATED, RELATED TO OPERATIONS AND MAINTENANCE (O&M) ACTIONS ON EQUIPMENT, LENDS ITSELF TO THE USE OF MANAGEMENT INFORMATION AND RETRIEVAL TECHNIQUE. THE USE OF ELECTRONIC DATA PROCESSING EQUIPMENT FOR THE ABOVE PURPOSES REQUIRES THAT THE DATA INPUT BE IDENTIFIED OR CODED IN SUCH A MANNER THAT IT CAN BE READ BY THE DATA PROCESSING INPUT/OUTPUT DEVICE.

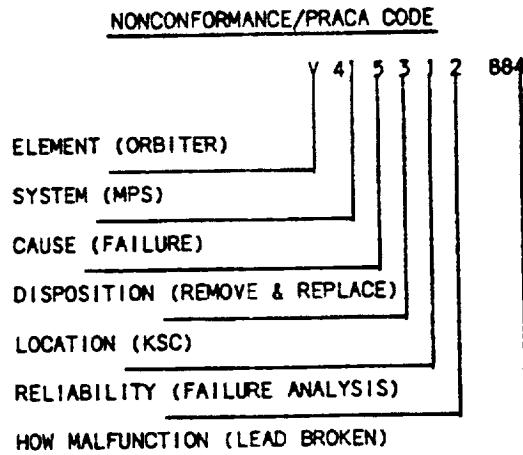
1.2 NON CONFORMANCE/PROBLEM REPORTING AND CORRECTIVE ACTION (PRACA) CODE STRUCTURE AND CHARACTERISTICS

THE NONCONFORMANCE/PRACA DATA CODE IS A TEN ALPHA NUMERIC CHARACTER CODE. THE FIRST SEVEN CHARACTERS OF THIS CODE ARE USED FOR MANAGEMENT TRENDING OF THE DATA AND THE LAST THREE CHARACTERS ARE USED TO DESCRIBE THE DETAILS OF THE MALFUNCTION.

1.3 DATA COLLECTION

DATA COLLECTION CODING IS USED TO IDENTIFY AND DOCUMENT, FOR HISTORICAL RECORD PURPOSES, DATA PERTINENT TO DISCREPANCIES OR PROBLEMS RELATED TO HARDWARE OR SOFTWARE. NONCONFORMANCE PRACA DATA COLLECTION CODES ARE A TEN-CHARACTER CODE. THE FIRST POSITION IS THE ELEMENT CODE (TABLE 2-1) WHICH CONSISTS OF AN ALPHABETIC CHARACTER TO

IDENTIFY THE ELEMENT. THE SECOND & THIRD POSITIONS ARE THE SYSTEM CODE (TABLES 2-2, 2-3, & 2-4) WHICH CONSISTS OF TWO CHARACTERS TO DESCRIBE THE SYSTEM AFFECTED. THE FOURTH POSITION IDENTIFIES THE CAUSE OF THE NONCONFORMANCE/PROBLEM (TABLE 2-5). THE FIFTH POSITION IDENTIFIES DISPOSITION (TABLE 2-6). THE SIXTH POSITION IDENTIFIES THE LOCATION (TABLE 2-7). THE SEVENTH POSITION IDENTIFIES WHETHER RECURRENCE CONTROL AND FAILURE ANALYSIS IS REQUIRED (TABLE 2-8). THE EIGHTH, NINTH, AND TENTH POSITIONS IDENTIFY THE HOW MALFUNCTIONED CODE (TABLES 2-9 AND 2-10) WHICH CONSISTS OF THREE NUMERIC CHARACTERS TO DESCRIBE THE EQUIPMENT MALFUNCTION. TO ILLUSTRATE DATA COLLECTION APPLICATION OF THE NONCONFORMANCE/PRACA CODE, ASSUME A PRESSURE SWITCH IN THE ORBITER FOR THE MAIN PROPULSION SYSTEM (MPS) AT KSC MALFUNCTIONED DURING THE MPS PERIFILATION TEST. THE SWITCH WAS REMOVED AND REPLACED AND ANALYSIS DETERMINED THE PROBLEM WAS DUE TO A BROKEN LEAD. IN THE EXAMPLE THE NONCONFORMANCE/PRACA CODE WOULD BE AS FOLLOWS:



SECTION II

DATA COLLECTION CODES

2.1 ELEMENT CODE

THIS CODE (TABLE 2-1) CONSISTS OF ONE ALPHABETIC CHARACTER AND IDENTIFIES THE ELEMENT.

2.2 FLIGHT SYSTEM CODE

THIS CODE (TABLE 2-2) CONSISTS OF TWO NUMERIC CHARACTERS AND IS USED TO IDENTIFY THE SYSTEM AFFECTED .

2.3 GROUND SYSTEM CODE

THIS CODE (TABLE 2-3) CONSISTS OF TWO ALPHABETIC CHARACTERS AND IS USED TO IDENTIFY THE GROUND SYSTEM AFFECTED.

2.4 EXPERIMENT CODE

THIS CODE (TABLE 2-4) CONSISTS OF TWO NUMERIC CHARACTERS AND IS USED TO IDENTIFY THE TYPE OR EXPERIMENT WHEN THE ELEMENT (FIRST CHARACTER) IS "P".

2.5 CAUSE CODE

THIS CODE (TABLE 2-5) CONSISTS OF ONE ALPHABETIC OR NUMERIC CHARACTER AND IDENTIFIES THE CAUSE OF THE NONCONFORMANCE/PROBLEM.

2.6 DISPOSITION CODE

THIS CODE (TABLE 2-6) CONSISTS OF ONE ALPHABETIC OR NUMERIC CHARACTER AND IDENTIFIES THE DISPOSITION OF THE NONCONFORMANCE/PROBLEM.

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2.7 LOCATION CODE

THIS CODE (TABLE 2-7) CONSISTS OF ONE ALPHABETIC OR NUMERIC CHARACTER AND IDENTIFIES THE LOCATION OF THE NONCONFORMING HARDWARE.

2.8 RELIABILITY STATUS CODE

THIS CODE (TABLE 2-8) CONSISTS OF ONE NUMERIC CHARACTER AND IDENTIFIES WHETHER RECURRENCE CONTROL & FAILURE ANALYSIS IS PERFORMED.

2.9 HOW MALFUNCTIONED CODE

THIS CODE (TABLE 2-9 FOR ALPHEBETIC ORDER, TABLE 2-10 FOR NUMERIC ORDER) CONSISTS OF THREE NUMERIC CHARACTERS AND IS USED TO DESCRIBE THE EQUIPMENT MALFUNCTION.

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TABLE 2-1. ELEMENT CODE

<u>ELEMENT</u>	<u>CODE</u>
BOOSTER	B
MAIN ENGINE	E
FACILITY	F
GSE	G
PAYLOAD/EXPERIMENT	P
EXTERNAL TANK	T
ORBITER	V
SHUTTLE (OVERALL)	S
(USE ONLY WHEN OTHER CODES DO NOT APPLY)	

TABLE 2-2. FLIGHT SYSTEM CODES

LIST OF NUMERIC CODES TO BE USED AS THE SECOND AND THIRD CHARACTERS TO THE NONCONFORMANCE/PRACA DATA CODE. USE TABLE 2-4 WHEN THE ELEMENT CODE (FIRST CHARACTER) IS "P".

- 00 - NOT OTHERWISE CODED
- 01 - ORBITER EXPERIMENTS
- 04 - STRUCTURES AND THERMAL CONTROL/PROTECTION
- 05 - PURGE, VENT AND DRAIN
- 06 - THERMAL CONTROL SYSTEM
(GENERAL - USE WHEN OTHER TCS CODES DO NOT APPLY)
- 07 - THERMAL/AERODYNAMICS
- 08 - STRUCTURAL DYNAMICS/STRUCTURES
- 09 - THERMAL PROTECTION SYSTEM
(GENERAL - USE WHEN OTHER TPS CODES DO NOT APPLY)
- 10 - WING
- 11 - WING LEADING EDGE
- 12 - WING BOX
- 13 - ELEVONS
- 16 - WING TCS
- 19 - WING TPS
- 20 - VERTICAL STABILIZER
- 21 - VERTICAL STABILIZER LEADING EDGE
- 22 - VERTICAL FIN
- 23 - RUDDER/SPEED BRAKE
- 26 - VERTICAL/STABILIZER TCS
- 29 - VERTICAL STABILIZER TPS
- 30 - FUSELAGE
- 31 - FUSELGE, UPPER FORWARD

TABLE 2-2. FLIGHT SYSTEM CODES
(CONTINUED)

- 32 - FUSELAGE, LOWER FORWARD
- 33 - CREW MODULE
- 34 - FUSELAGE, MID
- 35 - FUSELAGE, AFT
- 36 - FUSELAGE, TCS
- 37 - PAYLOAD BAY DOORS
- 38 - FUSELAGE PURGE, VENT AND DRAIN
- 39 - FUSELAGE TPS
- 40 - PROPULSION AND POWER
- 41 - MAIN PROPULSION
- 42 - REACTION CONTROL
- 43 - ORBITAL MANUEVERING
- 45 - ELECTRICAL POWER GENERATION AND PRSD
- 46 - AUXILIARY POWER UNIT
- 50 - MECHANICAL
- 51 - LANDING GEAR
- 52 - BRAKE/SKID CONTROL, DECELERATION AND RECOVERY
- 53 - DOCKING MECHANISM
- 54 - PAYLOAD RETENTION/DEPLOYMENT
- 55 - PYROTECHNICS AND RANGE SAFETY
- 56 - ATTACHMENT/SEPARATION
- 57 - AERO SURFACE CONTROL
- 58 - HYDRAULIC
- 59 - ACTUATION MECHANISMS
- 60 - ENVIRONMENTAL CONTROL & LIFE SUPPORT
- 61 - ATMOSPHERIC REVITALIZATION
- 62 - LIFE SUPPORT
- 63 - ACTIVE THERMAL CONTROL
- 64 - AIRLOCK SUPPORT

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TABLE 2-2. FLIGHT SYSTEM CODES
(CONTINUED)

- 65 - CREW PROVISIONS AND
ACCOMMODATIONS
- 66 - CREW EQUIPMENT
- 67 - BIOMEDICAL
- 70 - AVIONICS
- 71 - GUIDANCE AND NAVIGATION
- 72 - DATA PROCESSING
- 73 - DISPLAYS AND CONTROLS
- 74 - COMMUNICATIONS AND TRACKING
- 75 - INSTRUMENTATION
(OPERATIONAL)
- 76 - ELECTRICAL POWER
DISTRIBUTION AND CONTROL
- 77 - INTERCONNECTING WIRING
- 78 - INSTRUMENTATION, DEVELOPMENT
- 79 - FLIGHT CONTROL
- 80 - STRUCTURES
ACCESS/PENETRATION
- 81 - PALLET
- 82 - IGLOO
- 83 - AIRLOCK (CPSE)
- 84 - INSTRUMENT POINTING SYSTEM
- 90 - ORBITAL FLIGHT TEST
INTEGRATED SOFTWARE
- 91 - PRIMARY AVIONICS SYSTEM
SOFTWARE
- 92 - BACKUP FLIGHT SYSTEM
SOFTWARE
- 93 - SSME SOFTWARE
- 94 - DYNAMIC INTEGRATED TEST
SOFTWARE
- 95 - TEST CONTROLLER SUPERVISOR
SOFTWARE
- 96 - GENERAL PURPOSE COMPUTER -
INITIAL PROGRAM LOAD SOFTWARE
- 97 - MISCELLANEOUS FLIGHT
SOFTWARE
- 99 - AUTOMATIC CHECKOUT
EQUIPMENT

TABLE 2-3. GROUND SYSTEM CODES

LIST OF ALPHA CODES TO BE USED AS THE
SECOND AND THIRD CHARACTERS OF THE
NONCONFORMANCE/PRACA CODE.

CL COOLANT SYSTEM

AN AMMONIA
CO COOLANT WATER
PR FREON

CS COMMUNICATIONS SYSTEM

DS TELEPHONE, DATA, AND
SPECIAL AUDIO
DT DATA TRANSMISSION
FB FIBER OPTIC TRANSMISSION
SYSTEM/LIGHTWAVE
COMMUNICATIONS SYSTEM
CS OPERATIONAL
INTERCOMMUNICATION SYSTEM
PA PAGING & WARNING
PO PHOTO-OPTICAL
RF RF (RADIO FREQUENCY)
SW TEST AND SWITCHING
TC TIMING AND COUNTDOWN
TV TELEVISION
WT WIDEBAND TRANSMISSION

EP ELECTRICAL POWER AND FACILITY

GROUNDING SYSTEMS

AC 60 HERTZ
AS 400 HERTZ
SD SPECIAL POWER (DOD)
SL SPECIAL POWER (VO)
SP SPECIAL POWER (TECHNICAL
SUPPORT)
FG FACILITY GROUNDING
DC DIRECT CURRENT
CA CABLES
CP CATHODIC PROTECTION
EX EMERGENCY POWER
GE GENERATORS, ELECTRICAL

TABLE 2-3. GROUND SYSTEM CODES
(CONTINUED)

EP ELECTRICAL POWER AND FACILITY

GROUNDING SYSTEMS (CONT'D)

UP UNINTERRUPTED POWER
SUPPLY (UPS)
LE SPECIAL LIGHTING
EQUIPMENT
LD LIGHTNING DETECTION
SYSTEMS
LU LIGHTNING PROTECTION
LZ LIGHTNING MEASUREMENT
SYSTEMS

EQ EQUIPMENT

TE TEST EQUIPMENT
PE PROTECTIVE EQUIPMENT
PT PROOF TEST EQUIPMENT
ME MAINTENANCE EQUIPMENT
IE INSPECTION EQUIPMENT
CF CLEAN FACILITIES
AJ AIR COMPRESSORS
AV ACOUSTIC/VIBRATION
EQUIPMENT
CE POTTING EQUIPMENT
CX CLEANING EQUIPMENT
CX CHEMICAL ANALYSIS
EQUIPMENT
ER EARTH RESOURCES EQUIPMENT
MH MATERIAL HANDLING
EQUIPMENT
EM ELECTROMAGNETIC ANALYSIS
EQUIPMENT
ND NON DESTRUCTIVE
INSPECTION (TEST)
HY HYDRAULIC EQUIPMENT
AN ALIGNMENT EQUIPMENT
FP FOOD PROCESSING EQUIPMENT
GM GROUND MAINTENANCE
EQUIPMENT
FK FORKLIFTS/PALLET STACKERS
PP PAINTING EQUIPMENT
PU PLUMBING/PLUMBING SHOP
EQUIPMENT

TABLE 2-3. GROUND SYSTEM CODES
(CONTINUED)

EQ EQUIPMENT (CONT'D)

VS	VEHICLE SHOP EQUIPMENT
EZ	ELECTRICAL SHOP EQUIPMENT
MW	METAL WORKING MACHINERY AND EQUIPMENT
WW	WOOD WORKING MACHINERY AND EQUIPMENT
FF	FIRE FIGHTING, RESCUE, AND SAFETY EQUIPMENT
BM	BUILDING MAINTENANCE EQUIPMENT
CY	CONVEYORS
DU	DUST COLLECTORS
JA	JANITORIAL EQUIPMENT
RW	REFRIGERATION EQUIPMENT
TN	TANKS

FL FLIGHT HARDWARE TRANSPORTATION

& HANDLING SYSTEMS

HA	HANDLING AND ACCESS
TG	TUGS
TU	TUGS/BARGE (MARINE)
TD	TOW/HANDLING EQUIPMENT
RT	RETRIEVAL TOOLS/FIXTURES
TD	TRANSPORTERS AND DOLLIES

FN FACILITIES SUPPORT SYSTEMS

CR	CRANES (FIXED)
EV	ELEVATORS
EC	ENVIRONMENTAL CONTROL SYSTEM/EQUIPMENT
FD	FLAME DEFLECTORS
FT	FLOOD LIGHT SYSTEMS
SR	STRUCTURAL
UC	UTILITIES CONTROL
HT	HOISTS
MN	MOUNT MECHANISMS
PR	POWER OPERATED DOORS
SK	SCALES
OT	OFFICE TRAILERS

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TABLE 2-3. GROUND SYSTEM CODES
(CONTINUED)

GA GASEOUS SYSTEMS

GC	GAS CARTS
GN	GASEOUS NITROGEN
GH	GASEOUS HYDROGEN
GO	GASEOUS OXYGEN
ON	GASEOUS OXYGEN/NITROGEN
AI	AIR (PNEUMATIC, COMPRESSED)
HE	GASEOUS HELIUM
KB	K-BOTTLE CARTS
GT	COMPRESSED GAS TRAILERS
MC	MOBILE COMPRESSORS
MF	MOBILE REFUELERS
MR	MOBILE RECHARGER
PG	PRESSURIZATION/PURGE GASES
SG	GAS/LIQUID ANCILLARY SUPPORT EQUIPMENT

IN INSTRUMENTATION SYSTEMS

LM	LCC (LAUNCH CONTROL COMPLEX) MEASUREMENTS
VM	VEHICLE MEASUREMENTS GSE
TL	TELEMETRY CHECKOUT
CB	C-BAND CHECKOUT
IM	SIGNAL ANALYSIS MONITOR
RS	RANGE SAFETY CHECKOUT
TK	TACAN (TACTICAL AIR COMMAND AND NAVIGATION SYSTEM)
ML	MICROWAVE SCANNING BEAM LANDING SYSTEM (MSBLS)
MT	METEOROLOGICAL
PL	PRECISION LASER TRACKING SYSTEM (PLTS)
IT	INSTRUMENTATION TEST EQUIPMENT
ES	ENVIRONMENTAL & SPECIAL MEASUREMENTS
LW	LIGHTNING WARNING

TABLE 2-3. GROUND SYSTEM CODES
(CONTINUED)

IN	<u>INSTRUMENTATION SYSTEMS</u>
LF	LEFT MEASUREMENTS
NA	NASA-6 AIRCRAFT MEASUREMENTS
GI	GSE INSTRUMENTATION
LP	<u>LAUNCH PROCESSING SYSTEMS</u>
CD	CENTRAL DATA SYSTEM
CM	CHECKOUT, CONTROL, AND MONITORING SYSTEM
PC	SPACELAB PROCESSING GROUND COMPUTER SYSTEMS
RC	RECORD AND PLAYBACK SYSTEM
LS	<u>LIFE SUPPORT SYSTEMS</u>
AP	AIR PACKS
EN	ENSEMBLES
MA	MASKS
PV	ASTRO PURGE TRANSFER VENT
HB	HOSELINE BREATHING EQUIPMENT
BS	BREATHING SUPPLY
RE	RESUSCITATORS
AZ	AIR (LIFE SUPPORT)
PM	<u>PRIME MOVERS</u>
GS	AUTO TRACTORS
ST	SPECIAL TRACTORS
CT	CRAWLER/TRANSPORTER
CQ	CONSTRUCTION EQUIPMENT
KR	MOBILE CRANES
LT	LIQUID TANKERS
TQ	FARM TRACTORS
TT	TRUCKS/VANS
TR	TRAILERS

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TABLE 2-3. GROUND SYSTEM CODES
(CONTINUED)

PS PROPELLANT SYSTEMS

LC	LIQUID OXYGEN
LH	LIQUID HYDROGEN
MM	MMH (MONOMETHYL HYDRAZINE)
MY	MOBILE VAPOR SCRUBBERS
NO	N_2O_4 (NITROGEN TETROXIDE)
NH	N_2H_4 (HYDRAZINE)
CJ	COMPUTER, PROPELLANT LOADING
FC	FUEL CELLS
FH	FUEL CELLS, LH_2
FO	FUEL CELLS, LOX
HF	HYPERGOLIC FUEL (HYDRAZINE BASED FUELS)

SF SAFETY AND UTILITY SUPPORT

HV	HEATING, VENTILATION, AND AIR CONDITIONING
AA	ABORT ADVISORY
EG	EMERGENCY EGRESS
GD	FIRE/GAS DETECTION
WA	WATER PUMPING AND GENERAL DISTRIBUTION
WG	WATER (GLYCOL)
WP	WATER (POTABLE)
WI	WATER (INDUSTRIAL)
WF	WATER (FIREX)
WD	WATER ACOUSTIC/QUENCH
FA	FIRE ALARM
SS	SANITARY AND SEWAGE DISPOSAL
DW	DEIONIZED WATER
CW	CHILLED WATER
LN	LIQUID NITROGEN
VA	VACUUM
AL	ALCOHOL
EL	EMERGENCY LIGHTING
HD	HYPERBARIC CHAMBER
PY	PYROTECHNIC
SY	SPRINKLER SYSTEMS
OX	O_2 ANALYZERS

TABLE 2-3. GROUND SYSTEM CODES
(CONTINUED)

SF SAFETY AND UTILITY SUPPORT

(CONT'D)

WX	WASTE TREATMENT-INDUSTRIAL
DH	HOT WATER-DOMESTIC
SC	CHEMICAL SPRINKLER SYSTEM
SH	SOLAR HEATING
HH	HIGH TEMP-HOT WATER DISTRIBUTION SYSTEM
WH	H ₂ O HIGH PRESSURE
HC	HVAC CONDENSOR WATER
HW	HVAC HOT WATER
FS	FAN SYSTEM
AR	ROOM/AREA CONDITIONS
CN	CONTROL AIR SUBSYSTEM
DO	DIESEL FUEL
PN	PROPANE
SE	STEAM

VP VEHICLE PHYSICAL INTERFACE

SYSTEMS

SM	TAIL SERVICE MAST (TSM)
SA	SERVICE AND ACCESS ARMS
MS	MOBILE LAUNCHER SUPPORTS & HOLDDOWN ARMS
UM	UMBILICALS

ZZ MISSION CONTROL CENTER

RG ROADS AND GROUNDS

BR	BRIDGES
DQ	DIKES AND CANALS
LQ	LANDSCAPING
PI	PRIMARY ROADS
PK	STREETS AND PARKING LOTS
PQ	PEST CONTROL
SI	SECONDARY ROADS
SQ	SANITATION
WQ	WATERWAYS

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TABLE 2-3. GROUND SYSTEM CODES
(CONTINUED)

SO	<u>SOFTWARE</u>
CC	CCMS OPERATING SYSTEM
CG	CCMS REAL TIME DATA MANAGEMENT SYSTEM/PERIPHAL DATA RECORDER SHARED PERIPHAL AREA
CH	CCMS GROUND OPERATIONS AEROSPACE LANGUAGE
CI	CCMS TEST CONTROLLER SUPERVISOR
CU	CCMS CONTROL LOGIC - PREREQUISITE
CV	CCMS CONTROL LOGIC - REACTIVE
CZ	CCMS DISPLAY SKELTON
DE	CDS HONEYWELL EXECUTIVE
DI	CDS SUPPORT SOFTWARE (IBM)
DA	CDS APPLICATION SOFTWARE (COMPUTER APPLICATIONS ROUTINES)
DV	CDS SHUTTLE GROUND OPERATIONS SIMULATOR/VEHICLE SIMULATOR INTERFACE
DR	CDS REAL TIME INTERFACE/TEST DATA RETRIEVAL ROUTINE
DP	CDS APPLICATIONS PROGRAM LIBRARY MAINTENANCE
DM	CDS MATH MODELS
DD	CDS TEST CONFIGURATION IDENTIFIER
DB	CDS/CCMS DATA BANK
DN	CDS UNIQUE APPLICATION
RP	RECORD AND PLAYBACK SYSTEM

TABLE 2-4. EXPERIMENT CODES

00	-	NOT OTHERWISE CODED
01	-	ORBITER/PAYLOAD INTERFACE
02	-	TELEOPERATOR RETRIEVAL SYSTEM
03	-	PALLET
10	-	COMMUNICATION/NAVIGATION
20	-	EARTH OBSERVATIONS
30	-	ATMOSPHERIC PHYSICS
40	-	HIGH ENERGY PHYSICS
50	-	LIFE SCIENCE
60	-	SPACE TECHNOLOGY
70	-	SPACE EXPLORATION
80	-	SPACE PHYSICS
90	-	ASTRONOMY

TABLE 2-5. NONCONFORMANCE/PRACA "CAUSE"
CODE

<u>CAUSE</u>	<u>CODE</u>
OPERATOR ERROR	1
DESIGN DEFICIENCY	2
PROCEDURE/WORK AUTH ERROR	3
FAB/INSTALL/BUILDUP ERROR	4
DISASSY/REFURB DEF.	5
CALIBRATION ERROR	6
WEAR OUT/EXPIRED	7
LIMITED LIFE	8
FAILURE	9
MATERIALS DEFICIENCY	A
VENDOR RESPONSIBILITY	B
SHIPPING/HDLG DAMAGE	C
CONTAMINATION	D
CORROSION	E
LAUNCH DAMAGE	F
LANDING DAMAGE	G
RECOVERY DAMAGE	H
S/W PROGRAM/CODING ERROR	J
S/W COMPILE/EDIT ERROR	K
S/W MEDIA/BAD COPY/PARITY	L
UNEXPLAINED ANOMALY (GHOST/PHANTOM)	M
INSUFFICIENT DATA	N
NO DISCREPANCY	

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TABLE 2-6. NONCONFORMANCE/PRACA
"DISPOSITION" CODE

<u>DISPOSITION</u>	<u>CODE</u>
REPAIR (STANDARD)	1
REPAIR (NON-STD)	2
REMOVE & REPLACE	3
REWORK TO DRAWING	4
CLEAN	5
ADJUST	6
CALIBRATE	7
RETEST ONLY	8
USE AS IS	9
SCRAP	A
SEND TO VENDOR/RESP.	B
ORGANIZATION	
DOWNGRADE TO TEST USE ONLY	C
ENGINEERING CHANGE	D
WAIVER/DEVIATION	E
REVISE CODE/SOFTWARE	F
RECOMPILE/RE-EDIT	G
RECOPY/RECOMPILE MEDIA	H
REVISE DOCUMENTATION	J
NO ACTION TAKEN	K

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TABLE 2-7. NONCONFORMANCE/PRACA
"LOCATION" CODE

<u>LOCATION</u>	<u>CODE</u>
<u>FLIGHT HARDWARE</u>	
KSC	I
VLS	2
SLS/CLS	3
OTHER	4
<u>GSE AT KSC</u>	
OFF BAY 1	5
OFF BAY 2	6
PAD A	7
PAD B	8
LCC	9
VAB	A
CCF	B
SLF/CLS/SLS	C
HMF	D
O&C	E
VFF	F
CCAFS	G
MLP 1	H
MLP 2	J
CRAWLER 1	K
CRAWLER 2	L
OTHER	M
<u>GSE AT VAFB</u>	
LANDING/MDF (V17/V18)	N
OMCF/SCF (V19/V19A)	P
HMCV (V21)	Q
LP (V23)	R
LCC/VLPS-SVAFB (V88/ V84)	S
VLPS-NVAFB (V34)	T
PRF (V30)	U
SRSF (V31)	V
TCF (V33)	W
SDAF (V32)	X
LOGISTICS (V88)	Y
OTHER	Z

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TABLE 2-8. NONCONFORMANCE/PRACA
"RELIABILITY" CODE

<u>RELIABILITY STATUS</u>	<u>CODE</u>
RECURRENCE CONTROL	1
FAILURE ANALYSIS	2
RECURRENCE CONTROL & FAILURE ANALYSIS	3
NO RECUR CONT. OR FAIL. ANALYSIS	4

TABLE 2-9. HOW MALFUNCTIONED CODES,
ALPHABETICAL LISTING

<u>CODE</u>	<u>DESCRIPTION</u>
314	ACCELERATION INCORRECT
931	ACCIDENTAL OR INADVERTENT OPERATION, RELEASE, OR ACTIVATION. USE CODE 386 IF ITEM WAS LOST IN FLIGHT.
127	ADJUSTMENT OR ALIGNMENT IMPROPER
709	ADMINISTRATIVE CONDEMNATION
651	AIR IN SYSTEM
961	ANODE CURRENT HIGH
007	ARCING, ARCED
627	ATTENUATION INCORRECT
694	AUDIO AND VIDEO FAULTY
693	AUDIO FAULTY
652	AUTOMATIC ALIGNMENT TIME EXCESSIVE
656	AZIMUTH INCORRECT
838	B PLUS INCORRECT
658	BEARING DESTINATION (STATION) ERROR
710	BEARING FAILURE OR FAULTY
780	BENT, BUCKLED, COLLAPSED, DENTED, DISTORTED, OR TWISTED
631	BIAS VOLTAGE INCORRECT
135	BINDING, STUCK, OR JAMMED

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TABLE 2-9. HOW MALFUNCTIONED CODES,
ALPHABETICAL LISTING
(CONT'D)

<u>CODE</u>	<u>DESCRIPTION</u>
303	BIRD STRIKE DAMAGE
711	BLANKING IMPROPER
221	BOND FAULTY
003	BOUNCE
070	BROKEN
963	BROKEN FILAMENT/CATHODE TERMINAL
108	BROKEN, FAULTY, OR MISSING SAFETY WIRE OR KEY
719	BROKEN OR FRAYED BONDING OR GROUND WIRE
720	BRUSH FAILURE/WORN EXCESSIVELY
214	BUBBLE/BLISTER
900	BURNED OR OVERHEATED
080	BURNED OUT OR DEFECTIVE LAMP, METER, OR INDICATING DEVICE
111	BURST OR RUPTURED
469	BUSHING WORN OR DAMAGED
251	CALIBRATION FAULTY
250	CALIBRATION OVERDUE
025	CAPACITANCE INCORRECT
027	CAPACITOR FAULTY
698	CARD, PROGRAM, OR CHECKOUT FAULTY

TABLE 2-9. HOW MALFUNCTIONED CODES,
ALPHABETICAL LISTING
(CONT'D)

<u>CODE</u>	<u>DESCRIPTION</u>
969	CAVITY DOES NOT RESONATE
130	CHANGE OF VALUE
150	CHATTERING
910	CHIPPED
035	CLEANLINESS INCORRECT/VOIDED
181	COMPRESSION LOW
380	COMPRESSOR DAMAGED, REASON UNKNOWN
956	COMPUTER MECHANICAL EQUIPMENT MALFUNCTION
940	COMPUTER SOFTWARE ERROR
028	CONDUCTANCE INCORRECT
015	CONDUCTOR FAULTY
014	CONDUCTOR INSULATION FAULTY
016	CONDUCTOR SHIELD FAULTY
159	CONFIGURATION INCORRECT
160	CONTACTS/CONNECTION DEFECTIVE (PINS BENT/RECESSED ETC)
989	COOLANT FLOW RATE LOW
970	COOLANT LEAK
170	CORRODED, MILD TO MODERATE
667	CORRODED, SEVERE

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TABLE 2-9. HOW MALFUNCTIONED CODES,
ALPHABETICAL LISTING
(CONT'D)

<u>CODE</u>	<u>DESCRIPTION</u>
606	COUNTER RUN OFF, POSITION INDICATOR
190	CRACKED
605	CRAZED
029	CURRENT INCORRECT
116	CUT
972	DAMAGED INPUT PROBE
973	DAMAGED OUTPUT PROBE
943	DATA ERROR
955	DATA LINK HIGH ERROR RATE
729	DECOUPLED
846	DELAMINATED/DEBONDED
209	DENSITY TEST FAILURE
033	DESTROYED OR REMOVED FROM SERVICE AS A RESULT OF TESTING
117	DETERIORATED
601	DETONATION
290	DIAGNOSTIC/AUTOMATIC TEST FAILURE
093	DIMENSION(S) INCORRECT
024	DIODE FAULTY

TABLE 2-9. HOW MALFUNCTIONED CODES,
ALPHABETICAL LISTING
(CONT'D)

<u>CODE</u>	<u>DESCRIPTION</u>
230	DIRTY, CONTAMINATED, OR SATURATED BY FOREIGN MATERIAL
017	DISCOLORED/STAINED
958	DISPLAY INCORRECT
957	DISPLAY MISSING
657	DISTANCE MEASUREMENT ERROR, NAVIGATION EQUIPMENT
018	DRAWING/SPECIFICATION ERROR
009	DRIVE TRAIN/MOTOR FAULTY
962	ELECTRONIC POWER LOW
654	ELEVATION INCORRECT
932	ENGAGE, LOCK, OR UNLOCK INCORRECT
475	ENGINE FAILED TO START
142	ENGINE REMOVED, EXCESSIVE MAINTENANCE
911	ENGINE TCTI CORRECTION CODE
632	EXPENDED (THERMAL BATTERY, FIRE EXTINGUISHER, ETC)
204	EXPLOSION
424	EXTERNAL POWER SOURCE
602	FAILED OR DAMAGED DUE TO MALFUNCTION OR ASSOCIATED EQUIPMENT OR ITEM

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TABLE 2-9. HOW MALFUNCTIONED CODES,
ALPHABETICAL LISTING
(CONT'D)

<u>CODE</u>	<u>DESCRIPTION</u>
242	FAILED TO OPERATE OR FUNCTION, SPECIFIC REASON UNKNOWN
610	FAILS TO TRACK
013	FAN FAULTY
022	FLAKING/PEELING
128	FLOW RATE INCORRECT
037	FLUCTUATES, UNSTABLE, OR ERRATIC
178	FLUID INCORRECT
990	FOCUS CURRENT FAULTY
010	FOCUS POOR OR INCORRECT
301	FOREIGN OBJECT DAMAGE
748	FREQUENCY ERRATIC OR INCORRECT
981	FREQUENCY INSTABILITY
991	FREQUENCY OUT OF BAND
177	FUEL FLOW INCORRECT
472	FUSE BLOWN OR DEFECTIVE CIRCUIT PROTECTOR
254	GAGE/METER READING INCORRECT
088	GAIN INCORRECT
223	GAP FILLER DAMAGED
224	GAP FILLER MISSING

TABLE 2-9. HOW MALFUNCTIONED CODES,
ALPHABETICAL LISTING
(CONT'D)

<u>CODE</u>	<u>DESCRIPTION</u>
001	GASSY
625	GATING INCORRECT
206	GOUGES
653	GROUND SPEED ERROR EXCESSIVE
300	GROUNDING ELECTRICALLY
824	GYRO FAULTY
086	HANDLING IMPROPER
041	HAZARDOUS TO PERSONNEL OR EQUIPMENT
330	HUM EXCESSIVE
249	HYDROSTAT OVERDUE
936	IDENTIFICATION MISSING OR ERRONEOUS
006	IGNITER FAILURE
816	IMPEDANCE INCORRECT
917	IMPENDING FAILURE OR LATENT DEFECT INDICATED BY NONDESTRUCTIVE INSPECTION. DO NOT USE IF OTHER CODES APPLY.
916	IMPENDING OR INCIPIENT FAILURE INDICATED BY ANALYSIS
626	INDUCTANCE INCORRECT
987	INPUT PULSE DISTORTION
247	INSTALLED/ASSEMBLED IMPROPERLY

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TABLE 2-9. HOW MALFUNCTIONED CODES,
ALPHABETICAL LISTING
(CONT'D)

<u>CODE</u>	<u>DESCRIPTION</u>
350	INSULATION BREAKDOWN
026	INTEGRATED CIRCUIT FAULTY
021	INTERFERENCE (PHYSICAL)
901	INTERMITTENT
374	INTERNAL FAILURE
481	KEYWAY OR SPLINE DAMAGED OR WORN
158	LAUNCH DAMAGE
884	LEAD BROKEN
381	LEAKING, INTERNAL OR EXTERNAL
561	LIMITS UNADJUSTABLE
382	LIQUID LOCK
383	LOCK ON MALFUNCTION
447	LOGIC WRONG
730	LOOSE
105	LOOSE OR DAMAGED BOLTS, NUTS, SCREWS, RIVETS, FASTENERS, CLAMPS, OR OTHER COMMON HARDWARE
410	LUBRICATION IMPROPER
386	MAINTENANCE ACTION DUE TO LOST IN FLIGHT OCCURRENCE
246	MAINTENANCE IMPROPER OR FAULTY

TABLE 2-9. HOW MALFUNCTIONED CODES,
ALPHABETICAL LISTING
(CONT'D)

<u>CODE</u>	<u>DESCRIPTION</u>
604	MANIFOLD PRESSURE BEYOND LIMITS
372	METAL ON MAGNETIC PLUG
253	MISFIRES
092	MISMATCHED PARTS, ETC
750	MISSING
106	MISSING BOLTS, NUTS, SCREWS, RIVETS, FASTENERS, CLAMPS, OR OTHER COMMON HARDWARE
064	MODULATION INCORRECT
425	NICKED
799	NO DEFECT
800	NO DEFECT. COMPONENT REMOVED AND/OR REINSTALLED TO FACILITATE OTHER MAINTENANCE.
812	NO DEFECT. INDICATED DEFECT CAUSED BY ASSOCIATED EQUIPMENT MALFUNCTION
805	NO DEFECT. NOT OTHERWISE CODED ELECTRICAL, HYDRAULIC, AIR, FUEL, OXYGEN, OIL, ETC; LINES, MECHANICAL LINKAGE AND CABLES, SERVICING A COMPONENT REMOVED/DISCONNECTED AND/OR INSTALLED/CONNECTED TO FACILITATE OTHER MAINTENANCE.
948	NO DEFECT. OPERATOR ERROR

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TABLE 2-9. HOW MALFUNCTIONED CODES,
ALPHABETICAL LISTING
(CONT'D)

<u>CODE</u>	<u>DESCRIPTION</u>
802	NO DEFECT. PARTIAL TECHNICAL ORDER OR OMI COMPLIANCE
796	NO DEFECT. REMOVED FOR RELIABILITY ASSESSMENT
804	NO DEFECT. REMOVED FOR SCHEDULED MAINTENANCE OR MODIFICATION
803	NO DEFECT. REMOVED FOR TIME CHANGE
801	NO DEFECT. TECHNICAL ORDER OR OMI COMPLIANCE
798	NO DEFECT. TECHNICAL ORDER OR OMI NOT APPLICABLE. EQUIPMENT TO BE REPLACED, MODIFIED, OR NOT INSTALLED.
797	NO DEFECT. TECHNICAL ORDER OR OMI PREVIOUSLY COMPLIED WITH
793	NO DEFECT. TIME COMPLIANCE TECHNICAL INSTRUCTION KIT RECEIVED BY BASE SUPPLY OR PARTS ARE AVAILABLE IN SUPPLY.
607	NO-GO INDICATION. SPECIFIC REASON UNKNOWN
008	NOISY
941	NON-PROGRAMMED HALT
396	OIL BREATHING EXCESSIVE
398	OIL CONSUMPTION EXCESSIVE

TABLE 2-9. HOW MALFUNCTIONED CODES,
ALPHABETICAL LISTING
(CONT'D)

<u>CODE</u>	<u>DESCRIPTION</u>
603	OIL IN INDUCTION SYSTEM
450	OPEN
942	OPERATION OR ADDRESS ENTRY ILLEGAL
457	OSCILLATING
458	OUT OF BALANCE
609	OUT OF TRACK
255	OUTPUT INCORRECT
992	OUTPUT PULSE DISTORTION
464	OVERSPEED
638	PARAMETERS ACTIVATED
944	PARITY ERROR
520	PITTED
211	POT LIFE EXPIRED
212	POTTING HARDNESS FAILURE
669	POTTING MATERIAL MELTING (REVERSION PROCESS)
938	POWER OUTPUT DIP
525	PRESSURE INCORRECT
946	PRINTOUT INCORRECT OR MISSING
454	PRINTED CIRCUIT BOARD TRACE OPEN

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TABLE 2-9. HOW MALFUNCTIONED CODES,
ALPHABETICAL LISTING
(CONT'D)

<u>CODE</u>	<u>DESCRIPTION</u>
939	PROGRAM LOADING NOT POSSIBLE
245	PROOF TEST/PROOFLOAD FAILS
248	PROOFLOAD OVERDUE
865	PROTECTIVE COATING/SEALANT DEFECTIVE
208	PULL TEST FAILURE
668	PUMP ISOLATION. POSSIBLY DAMAGED DUE TO LACK OF FLUID
540	PUNCTURED
213	PUNCTURE/PINHOLE
655	RANGE INCORRECT
624	RECEIVER FAULTY
959	REDUNDANT EQUIPMENT TRANSFER FAILURE
629	RELAY MALFUNCTION
373	RELIEF VALVE FAILED TO CRACK/RESEAT
005	REMOVE BEFORE FLIGHT STREAMER MISSING
567	RESISTANCE INCORRECT
384	REVERSE LEAKAGE
993	RF DRIVE IMPROPER
994	RF FEED-THRU ATTENUATED/DISTORTED

TABLE 2-9. HOW MALFUNCTIONED CODES,
ALPHABETICAL LISTING
(CONT'D)

<u>CODE</u>	<u>DESCRIPTION</u>
995	RF FEED-THRU COMPLETELY INTERRUPTED
996	RF TERMINAL OVERHEATED
997	RF WINDOW BURNED
966	RF WINDOW SUCK-IN, BROKEN, OR CRACKED
216	ROUGHNESS/WAVINESS
518	ROUTING IMPROPER
315	RPM FLUCTUATION OR INCORRECT
040	SAMPLES FAILED ANALYSIS
583	SCOPE PRESENTATION INCORRECT OR FAULTY
935	SCORED OR SCRATCHED
030	SEAL/GASKET/O-RING DAMAGED
036	SEALING SURFACES FAULTY
635	SENSITIVITY INCORRECT
031	SHARP/PROTRUDING OBJECT
585	SHEARED
038	SHELF/AGE LIFE EXPIRED
619	SHIMMY EXCESSIVE
615	SHORTED

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TABLE 2-9. HOW MALFUNCTIONED CODES,
ALPHABETICAL LISTING
(CONT'D)

<u>CODE</u>	<u>DESCRIPTION</u>
215	SIZE IMPROPER
770	SLIP RING OR COMMUTATOR FAILURE
011	SOLDERING FAULTY
954	SOLID PROPELLANT LINER TO CASE SEPARATION
952	SOLID PROPELLANT TO LINER OR CASE SEPARATION
953	SOLID PROPELLANT VOID
210	SONIC TEST FAILURE
964	SPECTRUM POOR
316	SPEED FLUCTUATION OR INCORRECT
279	SPRAY PATTERN DEFECTIVE
814	SQUIB BLOWN
217	STEP/GAP OUT OF TOLERANCE
218	STITCHING DEFECTIVE
660	STRIPPED
503	SUDDEN STOP
649	SWEEP MALFUNCTION
012	SWITCH FAULTY
695	SYNC ABSENT OR INCORRECT
697	TAPE, PROGRAM, OR CHECKOUT FAULTY

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TABLE 2-9. HOW MALFUNCTIONED CODES,
ALPHABETICAL LISTING
(CONT'D)

<u>CODE</u>	<u>DESCRIPTION</u>
334	TEMPERATURE INCORRECT
002	TEMPORARY INSTALLED HW. - NOT REMOVED
665	TENSION INCORRECT
219	THERMAL SURFACE CRACKED
205	THICKNESS INCORRECT
019	THREADS GALLED
537	THRUST OR POWER LOW
039	TIME/CYCLE LIMITS EXCEEDED
636	TIME DELAY INCORRECT
784	TIRE BEAD AREA DAMAGED OR DEFECTIVE
785	TIRE INSIDE SURFACE DAMAGED OR DEFECTIVE
783	TIRE SIDEWALL DAMAGED OR DEFECTIVE
782	TIRE TREAD AREA DEFECTIVE. USE CUT, DELAMINATED, PUNCTURED, WORN, ETC, IF APPLICABLE.
947	TORN
167	TORQUE INCORRECT
023	TRANSISTOR FAULTY
623	TRANSMITTER FAULTY

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TABLE 2-9. HOW MALFUNCTIONED CODES,
ALPHABETICAL LISTING
(CONT'D)

<u>CODE</u>	<u>DESCRIPTION</u>
877	TRANSPORTATION DAMAGE
599	TRAVEL OR EXTENSION INCORRECT
637	TRIGGERING INCORRECT
974	TUNING CURVE DOES NOT TRACK
051	TUNING DRIFTS OR FAILS
982	TUNING MECHANISM FROZEN
486	TURBINE DAMAGED, REASON UNKNOWN
806	UNAUTHORIZED BREAK OF INTEGRITY CONTROL SEAL
034	UNAUTHORIZED WORK
988	VACUUM INCORRECT
032	VACUUM TUBE FAULTY
960	VALVE POSITION INDICATOR FAILURE
690	VIBRATION EXCESSIVE
692	VIDEO FAULTY
207	VOIDS
169	VOLTAGE INCORRECT
065	VOLTAGE STANDING WAVE RATIO HIGH
220	WATERPROOFING FAULTY/MISSING
878	WEATHER DAMAGE

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TABLE 2-9. HOW MALFUNCTIONED CODES,
ALPHABETICAL LISTING
(CONT'D)

<u>CODE</u>	<u>DESCRIPTION</u>
622	WET/CONDENSATION
020	WORN, CHAFED, OR FRAYED

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TABLE 2-10. HOW MALFUNCTIONED CODES,
NUMERICAL LISTING

<u>CODE</u>	<u>DESCRIPTION</u>
001	GASSY
002	TEMPORARY INSTALLED HWWR. - NOT REMOVED
003	BOUNCE
005	REMOVE BEFORE FLIGHT STREAMER MISSING
006	IGNITER FAILURE
007	ARCING, ARCED
008	NOISY
009	DRIVE TRAIN/MOTOR FAULTY
010	FOCUS POOR OR INCORRECT
011	SOLDERING FAULTY
012	SWITCH FAULTY
013	FAN FAULTY
014	CONDUCTOR INSULATION FAULTY
015	CONDUCTOR FAULTY
016	CONDUCTOR SHIELD FAULTY
017	DISCOLORED/STAINED
018	DRAWING/SPECIFICATION ERROR
019	THREADS GALLED
020	WORN, CHAFED, OR FRAYED

TABLE 2-10. HOW MALFUNCTIONED CODES,
NUMERICAL LISTING (CONT'D)

<u>CODE</u>	<u>DESCRIPTION</u>
021	INTERFERENCE (PHYSICAL)
022	FLAKING/PEELING
023	TRANSISTOR FAULTY
024	DIODE FAULTY
025	CAPACITANCE INCORRECT
026	INTEGRATED CIRCUIT FAULTY
027	CAPACITOR FAULTY
028	CONDUCTANCE INCORRECT
029	CURRENT INCORRECT
030	SEAL/GASKET/O-RING DAMAGED
031	SHARP/PROTRUDING OBJECT
032	VACUUM TUBE FAULTY
033	DESTROYED OR REMOVED FROM SERVICE AS A RESULT OF TESTING
034	UNAUTHORIZED WORK
035	CLEANLINESS INCORRECT/VOIDED
036	SEALING SURFACES FAULTY
037	FLUCTUATES, UNSTABLE, OR ERRATIC
038	SHELF/AGE LIFE EXPIRED
039	TIME/CYCLE LIMITS EXCEEDED

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TABLE 2-10. HOW MALFUNCTIONED CODES,
NUMERICAL LISTING (CONT'D)

<u>CODE</u>	<u>DESCRIPTION</u>
040	SAMPLES FAILED ANALYSIS
041	HAZARDOUS TO PERSONNEL OR EQUIPMENT
051	TUNING DRIFTS OR FAILS
064	MODULATION INCORRECT
065	VOLTAGE STANDING WAVE RATIO HIGH
070	BROKEN
080	BURNED OUT OR DEFECTIVE LAMP, METER, OR INDICATING DEVICE
086	HANDLING IMPROPER
088	GAIN INCORRECT
092	MISMATCHED PARTS, ETC.
093	DIMENSION(S) INCORRECT
105	LOOSE OR DAMAGED BOLTS, NUTS, SCREWS, RIVETS, FASTENERS, CLAMPS, OR OTHER COMMON HARDWARE
106	MISSING BOLTS, NUTS, SCREWS, RIVETS, FASTENERS, CLAMPS, OR OTHER COMMON HARDWARE
108	BROKEN, FAULTY, OR MISSING SAFETY WIRE OR KEY
111	BURST OR RUPTURED
116	CUT
117	DETERIORATED

TABLE 2-10. HOW MALFUNCTIONED CODES,
NUMERICAL LISTING (CONT'D)

<u>CODE</u>	<u>DESCRIPTION</u>
127	ADJUSTMENT OR ALIGNMENT IMPROPER
128	FLOW RATE INCORRECT
130	CHANGE OF VALUE
135	BINDING, STUCK, OR JAMMED
142	ENGINE REMOVED, EXCESSIVE MAINTENANCE
150	CHATTERING
158	LAUNCH DAMAGE
159	CONFIGURATION INCORRECT
160	CONTACTS/CONNECTION DEFECTIVE (PINS BENT/RECESSED ETC)
167	TORQUE INCORRECT
169	VOLTAGE INCORRECT
170	CORRODED, MILD TO MODERATE
177	FUEL FLOW INCORRECT
178	FLUID INCORRECT
181	COMPRESSION LOW
190	CRACKED
204	EXPLOSION
205	THICKNESS INCORRECT
206	GOUGES

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TABLE 2-10. HOW MALFUNCTIONED CODES,
NUMERICAL LISTING (CONT'D)

<u>CODE</u>	<u>DESCRIPTION</u>
207	VOIDS
208	PULL TEST FAILURE
209	DENSITY TEST FAILURE
210	SONIC TEST FAILURE
211	POT LIFE EXPIRED
212	POTTING HARDNESS FAILURE
213	PUNCTURE/PINHOLE
214	BUBBLE/BLISTER
215	SIZE IMPROPER
216	ROUGHNESS/WAVINESS
217	STEP/GAP OUT OF TOLERANCE
218	STITCHING DEFECTIVE
219	THERMAL SURFACE CRACKED
220	WATERPROOFING FAULTY/MISSING
221	BOND FAULTY
223	GAP FILLER DAMAGED
224	GAP FILLER MISSING
230	DIRTY, CONTAMINATED, OR SATURATED BY FOREIGN MATERIAL
242	FAILED TO OPERATE OR FUNCTION, SPECIFIC REASON UNKNOWN

TABLE 2-10. HOW MALFUNCTIONED CODES,
NUMERICAL LISTING (CONT'D)

<u>CODE</u>	<u>DESCRIPTION</u>
245	PROOF TEST/PROOFLoad FAILS
246	MAINTENANCE IMPROPER OR FAULTY
247	INSTALLED/ASSEMBLED IMPROPERLY
248	PROOFLoad OVERDUE
249	HYDROSTAT OVERDUE
250	CALIBRATION OVERDUE
251	CALIBRATION FAULTY
253	MISFIRES
254	GAGE/METER READING INCORRECT
255	OUTPUT INCORRECT
279	SPRAY PATTERN DEFECTIVE
290	DIAGNOSTIC/AUTOMATIC TEST FAILURE
300	GROUNDING ELECTRICALLY
301	FOREIGN OBJECT DAMAGE
303	BIRD STRIKE DAMAGE
314	ACCELERATION INCORRECT
315	RPM FLUCTUATION OR INCORRECT
316	SPEED FLUCTUATION OR INCORRECT
330	HUM EXCESSIVE
334	TEMPERATURE INCORRECT

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TABLE 2-10. HOW MALFUNCTIONED CODES,
NUMERICAL LISTING (CONT'D)

<u>CODE</u>	<u>DESCRIPTION</u>
350	INSULATION BREAKDOWN
372	METAL ON MAGNETIC PLUG
373	RELIEF VALVE FAILED TO CRACK/RESEAT
374	INTERNAL FAILURE
380	COMPRESSOR DAMAGED, REASON UNKNOWN
381	LEAKING, INTERNAL OR EXTERNAL
382	LIQUID LOCK
383	LOCK ON MALFUNCTION
384	REVERSE LEAKAGE
386	MAINTENANCE ACTION DUE TO LOST IN FLIGHT OCCURRENCE
396	OIL BREATHING EXCESSIVE
398	OIL CONSUMPTION EXCESSIVE
410	LUBRICATION IMPROPER
424	EXTERNAL POWER SOURCE
425	NICKED
447	LOGIC WRONG
450	OPEN
454	PRINTED CIRCUIT BOARD TRACE OPEN
457	OSCILLATING

TABLE 2-10. HOW MALFUNCTIONED CODES,
NUMERICAL LISTING (CONT'D)

<u>CODE</u>	<u>DESCRIPTION</u>
458	OUT OF BALANCE
464	OVERSPEED
469	BUSHING WORN OR DAMAGED
472	FUSE BLOWN OR DEFECTIVE CIRCUIT PROTECTOR
475	ENGINE FAILED TO START
481	KEYWAY OR SPLINE DAMAGED OR WORN
486	TURBINE DAMAGED, REASON UNKNOWN
503	SUDDEN STOP
518	ROUTING IMPROPER
520	PITTED
525	PRESSURE INCORRECT
537	THRUST OR POWER LOW
540	PUNCTURED
561	LIMITS UNADJUSTABLE
567	RESISTANCE INCORRECT
583	SCOPE PRESENTATION INCORRECT OR FAULTY
585	SHEARED
599	TRAVEL OR EXTENSION INCORRECT
601	DETONATION

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TABLE 2-10. HOW MALFUNCTIONED CODES,
NUMERICAL LISTING (CONT'D)

<u>CODE</u>	<u>DESCRIPTION</u>
602	FAILED OR DAMAGED DUE TO MALFUNCTION OR ASSOCIATED EQUIPMENT OR ITEM
603	OIL IN INDUCTION SYSTEM
604	MANIFOLD PRESSURE BEYOND LIMITS
605	CRAZED
606	COUNTER RUN OFF, POSITION INDICATOR
607	NO-GO INDICATION, SPECIFIC REASON UNKNOWN
609	OUT OF TRACK
610	FAILS TO TRACK
615	SHORTED
619	SHIMMY EXCESSIVE
622	WET/CONDENSATION
623	TRANSMITTER FAULTY
624	RECEIVER FAULTY
625	GATING INCORRECT
626	INDUCTANCE INCORRECT
627	ATTENUATION INCORRECT
629	RELAY MALFUNCTION
631	BIAS VOLTAGE INCORRECT

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TABLE 2-10. HOW MALFUNCTIONED CODES,
NUMERICAL LISTING (CONT'D)

<u>CODE</u>	<u>DESCRIPTION</u>
632	EXPENDED (THERMAL BATTERY, FIRE EXTINGUISHER, ETC)
635	SENSITIVITY INCORRECT
636	TIME DELAY INCORRECT
637	TRIGGERING INCORRECT
638	PARAMETERS ACTIVATED
649	SWEEP MALFUNCTION
651	AIR IN SYSTEM
652	AUTOMATIC ALIGNMENT TIME EXCESSIVE
653	GROUND SPEED ERROR EXCESSIVE
654	ELEVATION INCORRECT
655	RANGE INCORRECT
656	AZIMUTH INCORRECT
657	DISTANCE MEASUREMENT ERROR, NAVIGATION EQUIPMENT
658	BEARING DESTINATION (STATION) ERROR
660	STRIPPED
665	TENSION INCORRECT
667	CORRODED, SEVERE
668	PUMP ISOLATION, POSSIBLY DAMAGED DUE TO LACK OF FLUID

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TABLE 2-10. HOW MALFUNCTIONED CODES,
NUMERICAL LISTING (CONT'D)

<u>CODE</u>	<u>DESCRIPTION</u>
669	POTTING MATERIAL MELTING (REVERSION PROCESS)
690	VIBRATION EXCESSIVE
692	VIDEO FAULTY
693	AUDIO FAULTY
694	AUDIO AND VIDEO FAULTY
695	SYNC ABSENT OR INCORRECT
697	TAPE, PROGRAM, OR CHECKOUT FAULTY
698	CARD, PROGRAM, OR CHECKOUT FAULTY
709	ADMINISTRATIVE CONDEMNATION
710	BEARING FAILURE OR FAULTY
711	BLANKING IMPROPER
719	BROKEN OR FRAYED BONDING OR GROUND WIRE
720	BRUSH FAILURE/WORN EXCESSIVELY
729	DECOUPLED
730	LOOSE
748	FREQUENCY ERRATIC OR INCORRECT
750	MISSING
770	SLIP RING OR COMMUTATOR FAILURE

TABLE 2-10. HOW MALFUNCTIONED CODES,
NUMERICAL LISTING (CONT'D)

<u>CODE</u>	<u>DESCRIPTION</u>
780	BENT, BUCKLED, COLLAPSED, DENTED, DISTORTED, OR TWISTED
782	TIRE TREAD AREA DEFECTIVE. USE CUT, DELAMINATED, PUNCTURED, WORN, ETC, IF APPLICABLE.
783	TIRE SIDEWALL DAMAGED OR DEFECTIVE
784	TIRE BEAD AREA DAMAGED OR DEFECTIVE
785	TIRE INSIDE SURFACE DAMAGED OR DEFECTIVE
793	NO DEFECT. TIME COMPLIANCE TECHNICAL INSTRUCTION KIT RECEIVED BY BASE SUPPLY OR PARTS ARE AVAILABLE IN SUPPLY.
796	NO DEFECT. REMOVED FOR RELIABILITY ASSESSMENT
797	NO DEFECT. TECHNICAL ORDER OR OMI PREVIOUSLY COMPLIED WITH
798	NO DEFECT. TECHNICAL ORDER OR OMI NOT APPLICABLE. EQUIPMENT TO BE REPLACED, MODIFIED, OR NOT INSTALLED.
799	NO DEFECT
800	NO DEFECT. COMPONENT REMOVED AND/OR REINSTALLED TO FACILITATE OTHER MAINTENANCE.
801	NO DEFECT. TECHNICAL ORDER OR OMI COMPLIANCE

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TABLE 2-10. HOW MALFUNCTIONED CODES,
NUMERICAL LISTING (CONT'D)

<u>CODE</u>	<u>DESCRIPTION</u>
802	NO DEFECT. PARTIAL TECHNICAL ORDER OR OMI COMPLIANCE
803	NO DEFECT. REMOVED FOR TIME CHANGE
804	NO DEFECT. REMOVED FOR SCHEDULED MAINTENANCE OR MODIFICATION
805	NO DEFECT. NOT OTHERWISE CODED ELECTRICAL, HYDRAULIC, AIR, FUEL, OXYGEN, OIL, ETC; LINES, MECHANICAL LINKAGE AND CABLES, SERVICING A COMPONENT REMOVED/DISCONNECTED AND/OR INSTALLED/CONNECTED TO FACILITATE OTHER MAINTENANCE.
806	UNAUTHORIZED BREAK OF INTEGRITY CONTROL SEAL
812	NO DEFECT. INDICATED DEFECT CAUSED BY ASSOCIATED EQUIPMENT MALFUNCTION
814	SQUIB BLOWN
816	IMPEDANCE INCORRECT
824	GYRO FAULTY
838	B PLUS INCORRECT
846	DELAMINATED/DEBONDED
865	PROTECTIVE COATING/SEALANT DEFECTIVE
877	TRANSPORTATION DAMAGE

TABLE 2-10. HOW MALFUNCTIONED CODES,
NUMERICAL LISTING (CONT'D)

<u>CODE</u>	<u>DESCRIPTION</u>
878	WEATHER DAMAGE
884	LEAD BROKEN
900	BURNED OR OVERHEATED
901	INTERMITTENT
910	CHIPPED
911	ENGINE TCTI CORRECTION CODE
916	IMPENDING OR INCIPIENT FAILURE INDICATED BY ANALYSIS
917	IMPENDING FAILURE OR LATENT DEFECT INDICATED BY NONDESTRUCTIVE INSPECTION. DO NOT USE IF OTHER CODES APPLY.
931	ACCIDENTAL OR INADVERTENT OPERATION, RELEASE, OR ACTIVATION. USE CODE 386 IF ITEM WAS LOST IN FLIGHT.
932	ENGAGE, LOCK, OR UNLOCK INCORRECT
935	SCORED OR SCRATCHED
936	IDENTIFICATION MISSING OR ERRONEOUS
938	POWER OUTPUT DIP
939	PROGRAM LOADING NOT POSSIBLE
940	COMPUTER SOFTWARE ERROR
941	NON-PROGRAMMED HALT

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TABLE 2-10. HOW MALFUNCTIONED CODES,
NUMERICAL LISTING (CONT'D)

<u>CODE</u>	<u>DESCRIPTION</u>
942	OPERATION OR ADDRESS ENTRY ILLEGAL
943	DATA ERROR
944	PARITY ERROR
946	PRINTOUT INCORRECT OR MISSING
947	TORN
948	NO DEFECT. OPERATOR ERROR
952	SOLID PROPELLANT TO LINER OR CASE SEPARATION
953	SOLID PROPELLANT VOID
954	SOLID PROPELLANT LINER TO CASE SEPARATION
955	DATA LINK HIGH ERROR RATE
956	COMPUTER MECHANICAL EQUIPMENT MALFUNCTION
957	DISPLAY MISSING
958	DISPLAY INCORRECT
959	REDUNDANT EQUIPMENT TRANSFER FAILURE
960	VALVE POSITION INDICATOR FAILURE
961	ANODE CURRENT HIGH
962	ELECTRONIC POWER LOW
963	BROKEN FILAMENT/CATHODE TERMINAL

TABLE 2-10. HOW MALFUNCTIONED CODES,
NUMERICAL LISTING (CONT'D)

<u>CODE</u>	<u>DESCRIPTION</u>
964	SPECTRUM POOR
966	RF WINDOW SUCK-IN, BROKEN, OR CRACKED
969	CAVITY DOES NOT RESONATE
970	COOLANT LEAK
972	DAMAGED INPUT PROBE
973	DAMAGED OUTPUT PROBE
974	TUNING CURVE DOES NOT TRACK
981	FREQUENCY INSTABILITY
982	TUNING MECHANISM FROZEN
987	INPUT PULSE DISTORTION
988	VACUUM INCORRECT
989	COOLANT FLOW RATE LOW
990	FOCUS CURRENT FAULTY
991	FREQUENCY OUT OF BAND
992	OUTPUT PULSE DISTORTION
993	RF DRIVE IMPROPER
994	RF FEED-THRU ATTENUATED/DISTORTED
995	RF FEED-THRU COMPLETELY INTERRUPTED
996	RF TERMINAL OVERHEATED

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TABLE 2-10. HOW MALFUNCTIONED CODES,
NUMERICAL LISTING (CONT'D)

<u>CODE</u>	<u>DESCRIPTION</u>
997	RF WINDOW BURNED